



SERIES **4**
4000

Contact SAMSUNG WORLDWIDE

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| Country | Customer Care Center | Web Site | Address |
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LED TV user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service, please register
your product at
www.samsung.com/register

Model _____ Serial No. _____



BN68-02624A-05



Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Important Warranty Information Regarding Television Format Viewing

- ☞ See the warranty card for more information on warranty terms.

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on no expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven LED aging as a result of format selection and use, as well as burned in images, are not covered by your Samsung Limited warranty.

- **SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT**

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

For the location of a SAMSUNG Authorized Service Center, please call toll-free:

- In the United States : 1-800-SAMSUNG (1-800-726-7864)
- In Canada : 1-800-SAMSUNG

Still image warning

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 image format, stock or news bars at screen bottom etc.) on the screen. Constant displaying of still pictures can cause uneven wear of the screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

- Avoid displaying the same TV channel for long periods.
- Always try to display a full screen image.
- Reducing brightness and contrast will help to avoid the appearance of after-images.
- Use all TV features designed to reduce image retention and screen burn, refer to proper user manual section for details.

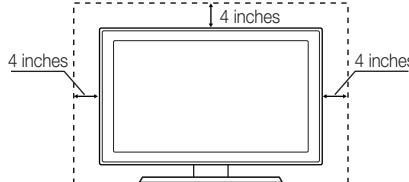
Securing the Installation Space

Keep the required distances between the product and other objects (e.g. walls) to ensure proper ventilation.

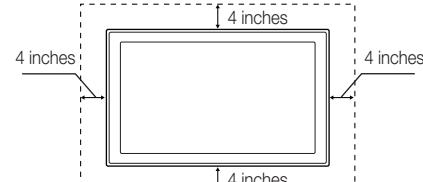
Failing to do so may result in fire or a problem with the product due to an increase in the internal temperature of the product.

- ☞ When using a stand or wall-mount, use parts provided by Samsung Electronics only.
 - If you use parts provided by another manufacturer, it may result in a problem with the product or an injury due to the product falling.
- ☞ The appearance may differ depending on the product.
- ☞ Be careful when you contact the TV because some parts can be somewhat hot.

Installation with a stand



Installation with a wall-mount



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Check the Symbol!

TOOLS



This function can be used by pressing the TOOLS button on the remote control.



Note
Indicates additional information.



Step by Step Guide
Check here for instructions on how to open the relevant submenu within the OSD (on screen display).

Getting Started

List of Features

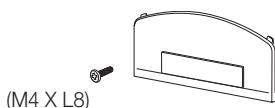
- Excellent Digital Interface & Networking: With a built-in HD digital tuner, nonsubscription HD broadcasts can be viewed without a cable box / STB (Set-Top-Box) satellite receiver (Set-Top Box).
- **Media Play:** Allows you to play music files, pictures, and movies saved on a USB device (p. 25).
- **Self Diagnosis:** You can check to make sure picture and sound operate normally (p. 23).

Accessories

☞ Please make sure the following items are included with your LED TV. If any items are missing, contact your dealer.

☞ The items' colors and shapes may vary depending on the models.

| | |
|--|--------------------------------|
| • Remote Control (BN59-00996A) & Batteries (AAA x 2) | • Cleaning Cloth (BN63-01798B) |
| • Owner's Instructions | • Power Cord (3903-000527) |
| • Warranty Card / Safety Guide / Quick Setup Guide | |



Blanking Bracket (BN63-06542B)
(26 inch model Only)



Cable Tie
(BN61-05596A)

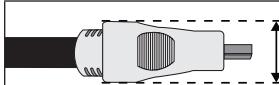


Holder-Wire stand
(BN61-05491A)
(26 inch model Only)

Holder-Wire (3EA)
(BN61-05373A)
(26 inch model Only)

Holder-Ring (4EA)
BN61-05280A
(26 inch model Only)

☞ For best cable connection to this product, be sure to use cables with a maximum thickness as below:



- Maximum thickness - 0.55 inches (14mm)

Input Cables (Sold Separately)

| | | | | | |
|------|----------|-----------|----------------|--------------|-----|
| | | | | | |
| HDMI | HDMI-DVI | Component | Composite (AV) | Coaxial (RF) | VGA |

Install the Stand (UN19C4000, UN22C4000 / UN22C4010)

See separate guide for installing the stand.

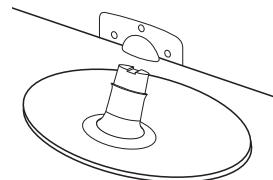
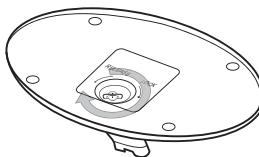
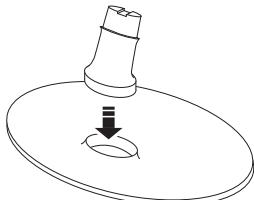


Stand Base



Stand Body

Follow the steps below to connect the TV to the stand.



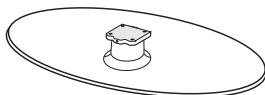
1. Insert the stand body into the stand base.
2. Screw the stand base to the stand body.
3. Slide the TV onto the stand body.

NOTE

- Make sure to distinguish between the front and back of the Stand and Guide Stand when assembling them.
- Lay the product down, with the screen facing up and fasten the screws.

Install the Stand (UN26C4000)

See separate guide for installing the stand.



Stand (1EA)

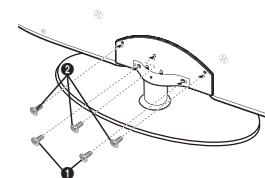
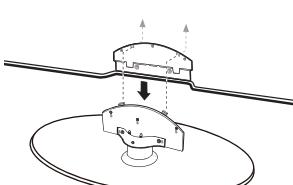
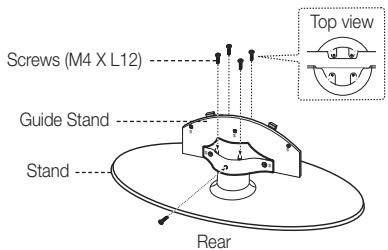


Guide Stand (1EA)



Screws (10EA)

Follow the steps below to connect the TV to the stand.



1. Connect the Guide Stand to the Stand using five screws (M4 X L12) as shown.
2. With your TV upright, connect the TV to the Stand as shown.
3. Fasten two screws (M4 X L8) at position 1, and then fasten three screws (M4 X L8) at position 2.

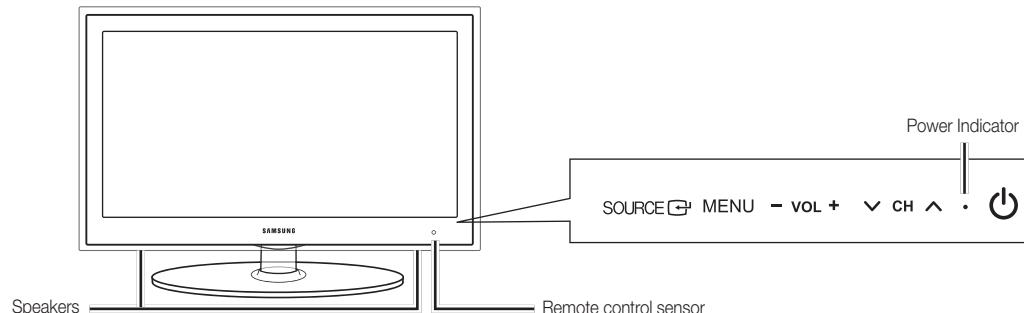
NOTE

- Make sure to distinguish between the front and back of the Stand and Guide Stand when assembling them.
- Make sure that at least two persons lift and move the LED TV.
- Stand the product up and fasten the screws. If you fasten the screws with the LED TV placed down, it may lean to one side.

Getting Started

Viewing the Control Panel

 The product color and shape may vary depending on the model.



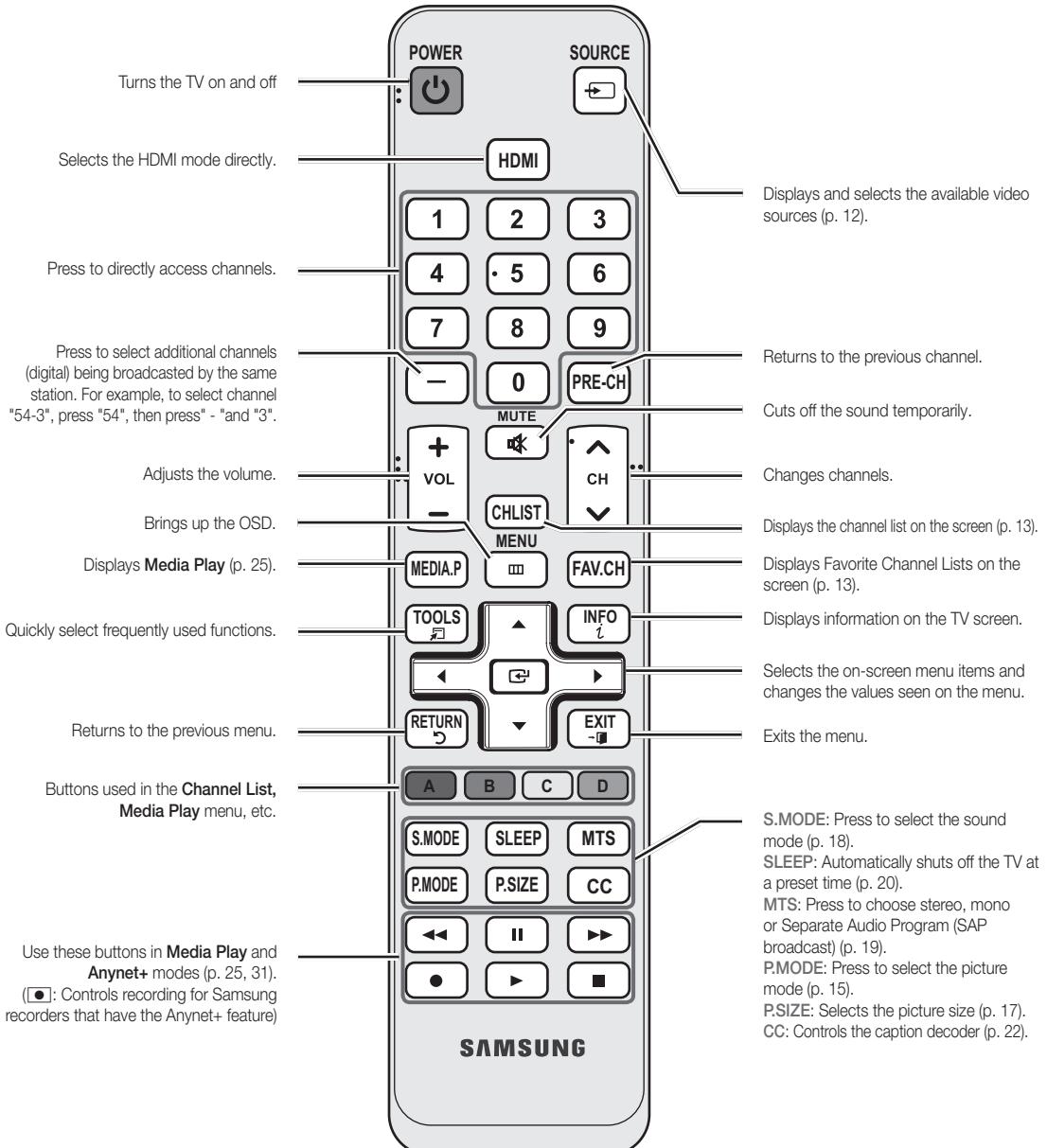
| | |
|-----------------------|--|
| Remote control sensor | Aim the remote control towards this spot on the TV. |
| SOURCE | Toggles between all the available input sources. In the on-screen menu, use this button as you would use the ENTER button on the remote control. |
| MENU | Displays an on-screen menu, the OSD (on screen display) of your TV's features. |
| - VOL + | Adjusts the volume. In the OSD, use the - VOL + buttons as you would use the < and > buttons on the remote control. |
| CH ▼ ▲ | Changes the channels. In the OSD, use the CH buttons as you would use the ▼ and ▲ buttons on the remote control. |
| Power Indicator | Blinks and turns off when the power is on and lights up in standby mode. |
| POWER (Power) | Turns the TV on or off. |

Standby mode

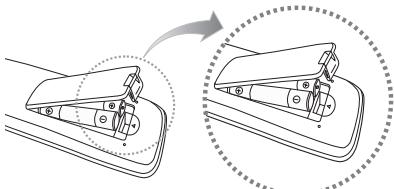
Do not leave your TV in standby mode for long periods of time (when you are away on a holiday, for example). A small amount of electric power is still consumed even when the power button is turned off. It is best to unplug the power cord.

Viewing the Remote Control

☞ This is a special remote control for the visually impaired and has Braille points on the Power, Channel and Volume buttons.



Installing batteries (Battery size: AAA)



☞ NOTE

- Use the remote control within 23 feet from the TV.
- Bright light may affect the performance of the remote control. Avoid use when nearby fluorescent lights or neon signs.
- The color and shape may vary depending on the model.

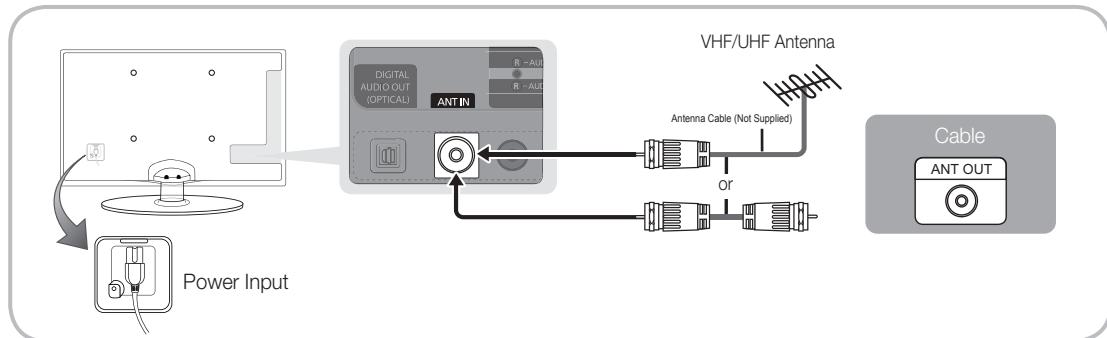
Getting Started

Connecting to an Antenna

When the TV is initially powered on, basic settings proceed automatically.

☞ Connecting the power cord and antenna.

☞ If the size of the cable mold part was an abnormal shape, the part may not be connected to the input port properly.



Plug & Play (Initial Setup)

When the TV is initially powered on, a sequence of on-screen prompts will assist in configuring basic settings. Press the **POWER** button. **Plug & Play** is available only when the **Input** source is set to TV.

☞ To return to the previous step, press the Red button.

| | | |
|---|--|---|
| 1 | Selecting a language | Press the ▲ or ▼ button, then press the ENTER button. Select the desired OSD (On Screen Display) language. |
| 2 | Selecting Store Demo or Home Use | Press the ◀ or ▶ button, then press the ENTER button. <ul style="list-style-type: none">• Select the Home Use mode. Store Demo Mode is for retail environments.• To return the unit's settings from Store Demo to Home Use (standard): Press the volume button on the TV. When you see the volume OSD, press and hold MENU for 5 sec. |
| 3 | Selecting an antenna | Press the ▲ or ▼ button, then press the ENTER button. Select Air , Cable or Auto . |
| 4 | Selecting a channel | Press the ▲ or ▼ button, then press the ENTER button. Select the channel source to memorize. When setting the antenna source to Cable , a step appears allowing you to assign numerical values (channel frequencies) to the channels. For more information, refer to Channel → Auto Program (p. 14). ☞ Press the ENTER button at any time to interrupt the memorisation process. |
| 5 | Setting the Clock Mode | Set the Clock Mode automatically or manually. <ul style="list-style-type: none">• Auto: Allows you to select DST (Daylight Saving Time) mode and time zone.• Manual: Allows you to manually set the current date and time. (p. 19).• The connection method for the best HD screen quality is displayed. |
| 6 | Viewing the HD Connection Guide . | |
| 7 | Enjoy your TV. | Press the ENTER button. |



If You Want to Reset This Feature...

☞ MENU **III** → **Setup** → **Plug & Play** → **ENTER**

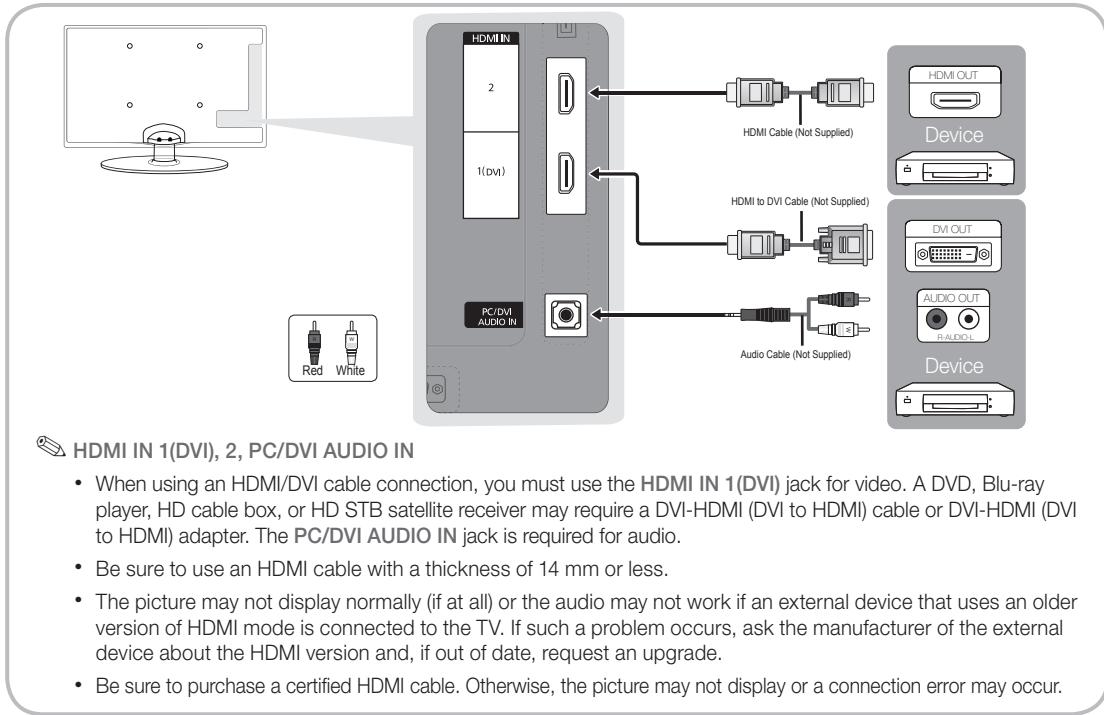
Connections

Connecting to an AV Device

Using an HDMI or HDMI/DVI cable: HD connection (up to 1080p)

We recommend using the HDMI connection for the best quality HD picture.

Available devices: DVD, Blu-ray player, HD cable box, HD STB (Set-Top-Box) satellite receiver

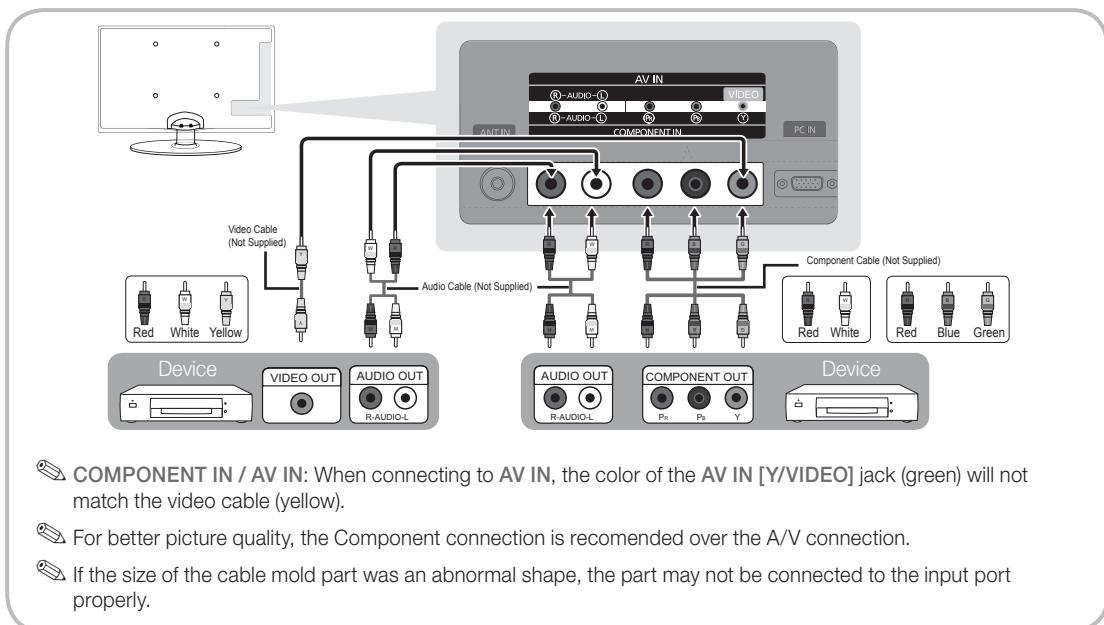


HDMI IN 1(DVI), 2, PC/DVI AUDIO IN

- When using an HDMI/DVI cable connection, you must use the **HDMI IN 1(DVI)** jack for video. A DVD, Blu-ray player, HD cable box, or HD STB satellite receiver may require a DVI-HDMI (DVI to HDMI) cable or DVI-HDMI (DVI to HDMI) adapter. The **PC/DVI AUDIO IN** jack is required for audio.
- Be sure to use an HDMI cable with a thickness of 14 mm or less.
- The picture may not display normally (if at all) or the audio may not work if an external device that uses an older version of HDMI mode is connected to the TV. If such a problem occurs, ask the manufacturer of the external device about the HDMI version and, if out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.

Using a Component (up to 1080p) or Audio/Video (480i only) Cable

Available devices: Digital Audio System, Amplifier, Home Theater



COMPONENT IN / AV IN: When connecting to AV IN, the color of the AV IN [Y/VIDEO] jack (green) will not match the video cable (yellow).

For better picture quality, the Component connection is recommended over the A/V connection.

If the size of the cable mold part was an abnormal shape, the part may not be connected to the input port properly.

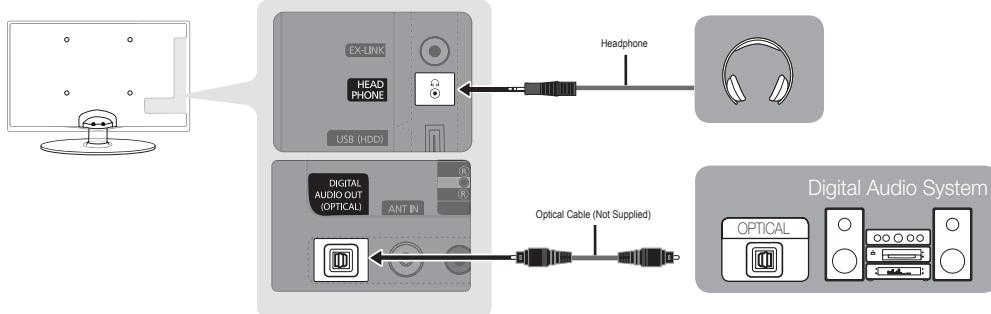
Connections

Connecting to an Audio Device

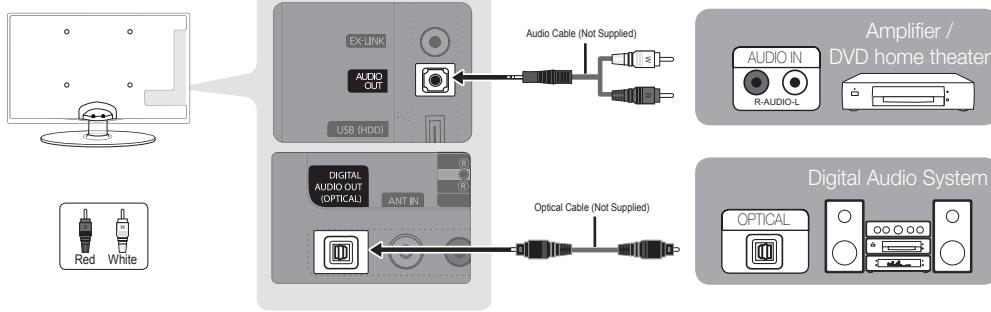
Using an Optical (Digital) or Audio (Analog) Cable or Headphone Connection

Available devices: Digital Audio System, Amplifier, DVD Home Theater

UN19C4000, UN22C4000



UN26C4000



☞ **DIGITAL AUDIO OUT (OPTICAL)**

- When a Digital Audio System is connected to the **DIGITAL AUDIO OUT (OPTICAL)** jack, decrease the volume of both the TV and the system.
- 5.1 CH (channel) audio is available when the TV is connected to an external device supporting 5.1 CH.
- When the receiver amplifier or DVD home theater is set to on, you can hear sound output from the TV's optical jack. When the TV is receiving a DTV signal, the TV will send 5.1 CH sound to the amplifier or DVD home theater. When the source is a digital component such as a DVD / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and is connected to the TV via HDMI, only 2 CH audio will be heard from the amplifier or DVD home theater. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB satellite receiver directly to an amplifier or home theater.

☞ **HEADPHONE**: You can connect your headphones to the headphones output on your set. While the headphones are connected, the sound from the built-in speakers will be disabled.

- Sound function may be restricted when connecting headphones to the TV.
- Headphone volume and TV volume are adjusted separately.

☞ **AUDIO OUT**: Connects to the audio input jacks on your amplifier/home theater.

- When connecting, use the appropriate connector.
- When an audio amplifier is connected to the **AUDIO OUT** jacks: Decrease the volume of the TV and adjust the volume level with the amplifier's volume control.

Using an EX-Link Cable Connection

Available Devices: External devices that support EX-Link

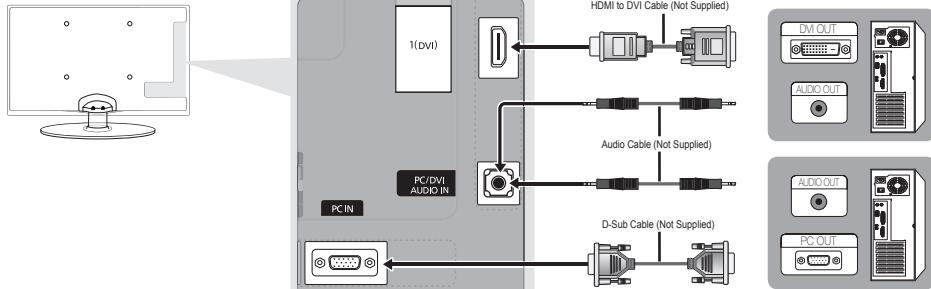
EX-LINK



EX-LINK: Connector for service only.

Connecting to a PC

Using an HDMI/DVI cable or a D-sub cable



Display Modes (D-Sub and HDMI/DVI Input)

Optimal resolution is 1360 x 768 @ 60 Hz.

| Mode | Resolution | Horizontal Frequency (KHz) | Vertical Frequency (Hz) | Pixel Clock Frequency (MHz) | Sync Polarity (H / V) |
|----------|------------|----------------------------|-------------------------|-----------------------------|-----------------------|
| IBM | 640 x 350 | 31.469 | 70.086 | 25.175 | +/- |
| | 720 x 400 | 31.469 | 70.087 | 28.322 | -/+ |
| MAC | 640 x 480 | 35.000 | 66.667 | 30.240 | -/- |
| | 832 x 624 | 49.726 | 74.551 | 57.284 | -/- |
| VESA CVT | 720 x 576 | 35.910 | 59.950 | 32.750 | -/+ |
| | 1280 x 720 | 56.456 | 74.777 | 95.750 | -/+ |
| VESA DMT | 640 x 480 | 31.469 | 59.940 | 25.175 | -/- |
| | 640 x 480 | 37.500 | 75.000 | 31.500 | -/- |
| | 640 x 480 | 37.861 | 72.809 | 31.500 | -/- |
| | 800 x 600 | 37.879 | 60.317 | 40.000 | +/- |
| | 800 x 600 | 46.875 | 75.000 | 49.500 | +/- |
| | 800 x 600 | 48.077 | 72.188 | 50.000 | +/- |
| | 1024 x 768 | 48.363 | 60.004 | 65.000 | -/- |
| | 1024 x 768 | 56.476 | 70.069 | 75.000 | -/- |
| | 1024 x 768 | 60.023 | 75.029 | 78.750 | +/- |
| | 1280 x 720 | 45.000 | 60.000 | 74.250 | +/- |
| VESA GTF | 1360 x 768 | 47.712 | 60.015 | 85.500 | +/- |
| VESA GTF | 1280 x 720 | 52.500 | 70.000 | 89.040 | -/+ |

NOTE

- For HDMI/DVI cable connection, you must use the **HDMI IN 1(DVI)** jack.
- The interlace mode is not supported.
- The set might operate abnormally if a non-standard video format is selected.
- Separate and Composite modes are supported. SOG(Sync On Green) is not supported.

Connections

Changing the Input Source

Source List

Use to select TV or an external input sources such as a DVD / Blu-ray player / cable box / STB satellite receiver.

 MENU  → Input → Source List → ENTER 



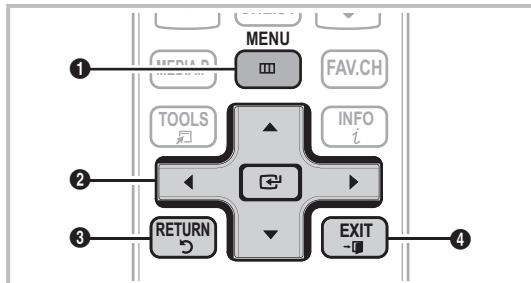
■ TV / PC / AV / Component / HDMI1/DVI / HDMI2 / USB

-  You can only choose external devices that are connected to the TV. In the **Source List**, connected inputs will be highlighted.
-  In the **Source List**, **PC** is always activated.

Basic Features

How to Navigate Menus

Before using the TV, follow the steps below to learn how to navigate the menu and select and adjust different functions.



- 1 MENU button: Displays the main on-screen menu.
- 2 ENTER  / Direction button: Move the cursor and select an item. Confirm the setting.
- 3 RETURN button: Returns to the previous menu.
- 4 EXIT button: Exits the on-screen menu.

Edit Name

 MENU  → Input → Edit Name → ENTER 

■ VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI Devices / TV / IPTV / Blu-ray / HD DVD / DMA: Name the device connected to the input jacks to make your input source selection easier.

 When connecting an HDMI/DVI cable to the **HDMI IN 1(DVI)** port, you should set the TV to **DVI PC** or **DVI Devices** mode under **Edit Name**.

How to Operate the OSD (On Screen Display)

The access step may differ depending on the selected menu.

| | | |
|---|---|--|
| 1 | MENU  | The main menu options appear on the screen: Picture, Sound, Channel, Setup, Input, Application, Support. |
| 2 | ▲ / ▼ | Select an icon with the ▲ or ▼ button. |
| 3 | ENTER  | Press ENTER  to access the sub-menu. |
| 4 | ▲ / ▼ | Select the desired submenu with the ▲ or ▼ button. |
| 5 | ◀ / ▶ | Adjust the value of an item with the ◀ or ▶ button. The adjustment in the OSD may differ depending on the selected menu. |
| 6 | ENTER  | Press ENTER  to confirm the selection. |
| 7 | EXIT  | Press EXIT. |

Channel Menu

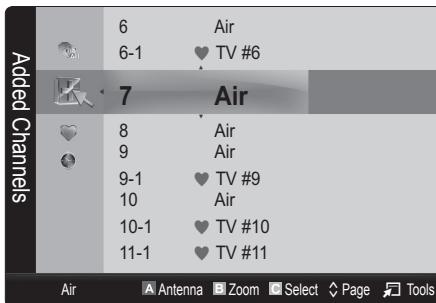
Seeing Channels

Channel List

Add, delete or set Favorite channels and use the program guide for digital broadcasts.

 MENU  → Channel → Channel List → ENTER 

Select a channel in the All Channels, Added Channels, Favorite or Programmed screen by pressing the  /  and ENTER  buttons. Then you can watch the selected channel.



-  **All Channels:** Shows all currently available channels.
-  **Added Channels:** Shows all added channels.
-  **Favorite:** Shows all favorite channels.
-  **Programmed:** Shows all currently reserved programs.

Using the color buttons with the **Channel List**

-  **Red (Antenna):** Switches to **Air** or **Cable**.
-  **Green (Zoom):** Enlarges or shrinks a channel number.
-  **Yellow (Select):** Selects multiple channel lists. Select desired channels and press the Yellow button to set all the selected channels at the same time. The  mark appears to the left of the selected channels.
-  **(Page):** Move to next or previous page.
-  **(Tools):** Displays the **Channel List** option menu. (The options menus may differ depending on the situation.)

Channel Status Display Icons

| Icons | Operations |
|---|------------------------------|
|  | A channel selected. |
|  | A channel set as a Favorite. |
|  | A reserved Program. |

Using Favorite Channels

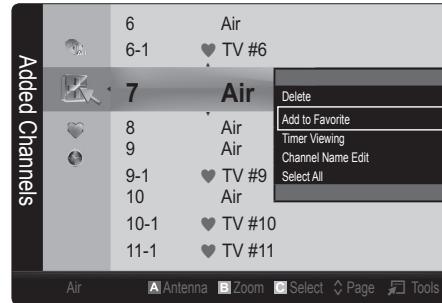
 MENU  → Channel → Channel List → ENTER 

Add to Favorite / Delete from Favorite

TOOLS

Set channels you watch frequently as Favorites.

1. Select a channel and press the **TOOLS** button.
2. Add or delete a channel using the **Add to Favorite** or **Delete from Favorite** menu respectively.



To show all Favorite channels, click on the **FAV.CH** button shown on the right.



Basic Features

Memorizing channels

 MENU  → Channel → ENTER 

Antenna (Air / Cable)

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e. an Air or a Cable system).

Auto Program

- **Air:** Air antenna signal.
- **Cable:** Cable antenna signal.
- **Auto:** Air and Cable antenna.

NOTE

- When selecting the Cable TV system: **STD**, **HRC** and **IRC** identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area. At this point, the signal source has been selected.
- After all the available channels are stored, it starts to remove scrambled channels. The **Auto Program** menu then reappears.

Editing Channels

 MENU  → Channel → Channel List → ENTER 

Channel Name Edit

1. Select a channel and press the **TOOLS** button.
2. Edit the channel name using the **Channel Name Edit** menu.

■ **Channel Name Edit** (analog channels only): Assign your own channel name.

Other Features

 MENU  → Channel → ENTER 

Clear Scrambled Channel

This function is used to filter out scrambled channels after Auto Program is completed. This process may take up to 20~30 minutes.

How to Stop Searching Scrambled Channels

1. Press the **ENTER**  button to select **Stop**.
2. Press the **◀** button to select **Yes**.
3. Press the **ENTER**  button.

 This function is only available in **Cable** mode.

Channel List

Channel List Option Menu

Set each channel using the **Channel List** menu options (**Add / Delete**, **Timer Viewing**, **Select All / Deselect All**). Option menu items may differ depending on the channel status.

1. Select a channel and press the **TOOLS** button.
2. Select a function and change its settings.

■ **Add / Delete:** Delete or add a channel to display the channels you want.

 **NOTE**

- All deleted channels will be shown on the **All Channels** menu.
- A gray-colored channel indicates the channel has been deleted.
- The **Add** menu only appears for deleted channels.
- Delete a channel from the **Added Channels** or **Favorite** menu in the same manner.

■ **Timer Viewing:** You can set a desired channel to be displayed automatically at the reserved time. Set the current time first to use this function.

1. Press the **◀** / **▶** / **▲** / **▼** buttons to select the desired channel in **Channel List**.
2. Press the **TOOLS** button, then select **Timer Viewing**.
3. Scroll up or down to adjust the settings in the box, or use the numeric buttons on your remote to enter the date and time.

 If you selected **Once**, **Every Week** or **Everyday** in **Repeat**, you can enter the date you want.

4. Select **OK**, then press the **ENTER**  button when done.

**NOTE**

- Only memorized channels can be reserved.
- Reserved programs will be displayed in the **Programmed** menu.
- When a digital channel is selected, press the **▶** button to view the digital program.

- **Select All:** Select all the channels in the channel list.
- **Deselect All:** Deselect all the selected channels.

You can only select **Deselect All** when one or more channels are selected.

Programmed

(in Channel List)

You can view, modify or delete a show you have reserved to watch. **Programmed** timer viewing is displayed here. Highlight a program and press the **TOOLS** button to display Options.

- **Change Info:** Change a show you have reserved to watch. Begin with step 3 of "Timer Viewing," above.
- **Cancel Schedules:** Cancel a show you have reserved to watch.

This deletes the highlighted or selected program(s).

- **Information:** Display a show you have reserved to watch. (You can also change the reservation Information.)

Alternatively, you can view Information by highlighting a program and pressing the **ENTER** button.

- **Select All / Deselect All:** Select or deselect all reserved programs.

Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually. Scroll to the left or right until the image is clear.

Settings are applied to the channel your currently watching.

Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.

To reset the fine-tuning, select **Reset**.

Picture Menu

Changing the Preset Picture Mode

MENU **III** → Picture → Mode → ENTER

Mode **TOOLS**

Select your preferred picture type.

- **Dynamic:** Suitable for a bright room.
- **Standard:** Suitable for a normal environment.
- **Movie:** Suitable for watching movies in a dark room.



Adjusting Picture Settings

Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

MENU **III** → Picture → ENTER

Your television has several setting options for picture quality control.

NOTE

- When you make changes to **Backlight**, **Contrast**, **Brightness**, **Sharpness**, **Color** or **Tint (G/R)** the OSD will be adjusted accordingly.
- In PC mode, you can only make changes to **Backlight**, **Contrast** and **Brightness**.
- Settings can be adjusted and stored for each external device connected to the TV.

Basic Features

Economical Solutions

The Eco Function can be used to enhance your power savings.

Eco Solution

MENU → Picture → Eco Solution → ENTER

- **Energy Saving (Off / Low / Medium / High / Picture Off / Auto):** This adjusts the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button to turn on the screen again.
- **No Signal Power Off (Off / 15 min. / 30 min. / 60 min.):** To avoid unnecessary energy consumption, set how long you want the TV to remain on if it's not receiving a signal.
 - Disabled when the PC is in power saving mode.

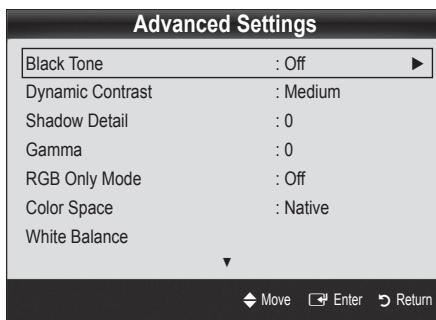
Changing the Picture Options

Advanced Settings

MENU → Picture → Advanced Settings → ENTER

(Advanced Settings are available in **Standard / Movie** mode) Compared to previous models, new Samsung TVs have a more precise picture.

In PC mode, you can only make changes to **Dynamic Contrast, Gamma and White Balance**.

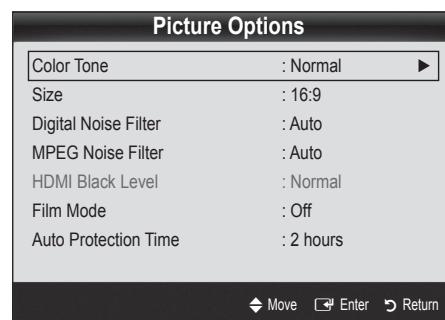


- **Black Tone (Off / Dark / Darker / Darkest):** Select the black level to adjust the screen depth.
- **Dynamic Contrast (Off / Low / Medium / High):** Adjust the screen contrast.
- **Shadow Detail (-2~+2):** Increase the brightness of dark images.
- **Gamma:** Adjust the primary color intensity.
- **RGB Only Mode (Off / Red / Green / Blue):** Displays the **Red, Green** and **Blue** color for making fine adjustments to the hue and saturation.
- **Color Space (Auto / Native / Custom):** Adjust the range of colors available to create the image. To adjust **Color, Red, Green, Blue** and **Reset**, set **Color Space** to **Custom**.
- **White Balance:** Adjust the color temperature for a more natural picture.
 - R-Offset / G-Offset / B-Offset:** Adjust each color's (red, green, blue) darkness.
 - R-Gain / G-Gain / B-Gain:** Adjust each color's (red, green, blue) brightness.
 - Reset:** Resets the **White Balance** to its default settings.
- **Flesh Tone:** Emphasize pink "Flesh Tone."
- **Edge Enhancement (Off / On):** Emphasize object boundaries.

Picture Options

MENU → Picture → Picture Options → ENTER

In PC mode, you can only make changes to the **Color Tone, Size, Digital Noise Filter** and **Auto Protection Time**.



■ **Color Tone (Cool / Normal / Warm1 / Warm2)**

☞ **Warm1** or **Warm2** will be deactivated when the picture mode is **Dynamic**.

☞ Settings can be adjusted and stored for each external device connected to an input on the TV.

■ **Size:** Your cable box/satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use 16:9 mode most of the time.



16:9 : Sets the picture to 16:9 wide mode.

Zoom1: Use for moderate magnification.

Zoom2: Use for a stronger magnification.

Wide Fit: Enlarges the aspect ratio of the picture to fit the entire screen.

☞ Available with HD 1080i / 720p signal in 16:9 mode.

4:3 : Sets the picture to basic (4:3) mode.

☞ Do not watch in 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention(screen burn) which are not covered by the warranty.

Screen Fit: Displays the full image without any cut-off when HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals are inputted.

☞ **NOTE**

- After selecting **Zoom1**, **Zoom2** or **Wide Fit**:

1. Press the ▶ button to select **Position**.
2. Press the ENTER  button.
3. Press the ▲ or ▼ button to move the picture up or down.
4. Press the ENTER  button.
5. Press the ▶ button to select **Reset**.
6. Press the ENTER  button to reset the picture to its default position.

- After selecting **Screen Fit** in HDMI (1080i/1080p) or Component (1080i/1080p) mode, you may need to center the picture:

1. Press the ◀ or ▶ button to select **Position**.
2. Press the ENTER  button.
3. Press the ▲, ▼, ◀ or ▶ button to move the picture.
4. Press the ENTER  button.
5. Press the ◀ or ▶ button to select **Reset**.
6. Press the ENTER  button.

- HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)

- Settings can be adjusted and stored for each external device you have connected to an input on the TV.

| Input Source | Picture Size |
|---------------------------|----------------------|
| ATV, AV, | 16:9, Zoom1, |
| Component (480i, 480p) | Zoom2, 4:3 |
| DTV(1080i), | 16:9, 4:3, Wide Fit, |
| Component (1080i, 1080p), | Screen Fit |
| HDMI (720p, 1080i, 1080p) | |
| PC | 16:9, 4:3 |

■ **Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualization):** If the broadcast signal received by your TV is weak, you can activate the **Digital Noise Filter** feature to reduce any static and ghosting that may appear on the screen.

☞ When the signal is weak, try other options until the best picture is displayed.

Auto Visualization: When changing analog channels, displays signal strength.

☞ Only available for analog channels.

☞ When bar is green, is that the best possible signal.

■ **MPEG Noise Filter (Off / Low / Medium / High / Auto):** Reduces MPEG noise to provide improved picture quality.

■ **HDMI Black Level (Normal / Low):** Selects the black level on the screen to adjust the screen depth.

☞ Available only in HDMI mode.

■ **Film Mode (Off / Auto1 / Auto2):** Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality.

☞ Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

■ **Auto Protection Time (2 hours / 4 hours / 8 hours / 10 hours / Off):** Set the time the screen remains idle with a still image until the screen saver is activated. The screen saver prevents the formation of ghost images on the screen.

Basic Features

Picture Reset (OK / Cancel)

Resets your current picture mode to its default settings.

Setting up the TV with Your PC

Set the input source to PC.

MENU → Picture → ENTER

Auto Adjustment

Adjust frequency values/positions and fine tune the settings automatically.

Not available when connecting with an HDMI/DVI cable.

Screen

- **Coarse / Fine:** Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, then adjust the frequency as best as possible (**Coarse**) and Fine-tune again. After the noise has been reduced, readjust the picture so that it is aligned to the center of screen.
- **Position:** Adjust the PC's screen positioning if it does not fit the TV screen. Press the ▲ or ▼ button to adjust the Vertical-Position. Press the ◀ or ▶ button to adjust the Horizontal-Position.
- **Image Reset:** Resets the image to default settings.

Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

Depending on the version of Windows and the video card, the actual screens on your PC will probably look different, but the same basic set-up information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. Click on "Control Panel" on the Windows start menu.
2. Click on "Appearance and Themes" in the "Control Panel" window and a display dialog-box will appear.
3. Click on "Display" and a display dialog box will appear.
4. Navigate to the "Settings" tab on the display dialog-box.
 - The correct size setting (resolution) [Optimum: 1360 x 768 pixels]
 - If a vertical-frequency option exists on your display settings dialog box, the correct value is '60' or '60 Hz'. Otherwise, just click 'OK' and exit the dialog box.

Sound Menu

Changing the Preset Sound Mode

MENU → Sound → Mode → ENTER

Mode

- **Standard:** Selects the normal sound mode.
- **Music:** Emphasizes music over voices.
- **Movie:** Provides the best sound for movies.
- **Clear Voice:** Emphasizes voices over other sounds.
- **Amplify:** Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.



Adjusting Sound Settings

MENU → Sound → Equalizer → ENTER

Equalizer

Adjusts the sound mode (standard sound mode only).

- **Balance L/R:** Adjusts the balance between the right and left speaker.
- **100Hz / 300Hz / 1KHz / 3KHz / 10KHz (Bandwidth Adjustment):** Adjusts the level of specific bandwidth frequencies.
- **Reset:** Resets the equalizer to its default settings.

Sound Settings

MENU → Sound → ENTER

Virtual Surround (Off / On)

(standard sound mode only)

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

Dialog Clarity (Off / On)

(standard sound mode only)

This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

Preferred Language

(digital channels only)

Digital-TV broadcasts are capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).

- You can only select a language among the ones being broadcasted.



Multi-Track Sound (MTS)

(analog channels only)

- Mono:** Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.
- Stereo:** Choose for channels that are broadcasting in stereo.
- SAP:** Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.



- Depending on the particular program being broadcast, you can listen to **Mono**, **Stereo** or **SAP**.

Auto Volume (Off / Normal / Night)

To equalize the volume level on each channel, set to **Normal**.

- Night:** This mode provides an improved sound experience compared to **Normal** mode, making almost no noise. It is useful at night.

Speaker Select (External Speaker / TV Speaker)

A sound echo may occur due to a difference in decoding speed between the main speaker and the audio receiver. In this case, set the TV to **External Speaker**.

- When **Speaker Select** is set to **External Speaker**, the volume and **MUTE** buttons will not operate and the sound settings will be limited.
- When **Speaker Select** is set to **External Speaker**
 - TV Speaker: Off, External Speaker: On**
- When **Speaker Select** is set to **TV Speaker**
 - TV Speaker: On, External Speaker: On**
- If there is no video signal, both speakers will be mute.

SPDIF Output

SPDIF (Sony Philips Digital Interface) is used to provide digital sound, reducing interference going to speakers and various digital devices such as an A/V Receiver/Home theater.

- Audio Format:** During the reception of a digital TV broadcast, you can select the Digital Audio output (SPDIF) format from the options **PCM** or **Dolby Digital**.
- Audio Delay:** Correct audio-video sync problems, when watching TV or video, and when listening to digital audio output using an external device such as an AV receiver (0ms ~ 250ms).

Sound Reset (OK / Cancel)

Reset all sound settings to the factory defaults.

Setup Menu

Setting the Time

MENU Setup Time ENTER

Time

- Clock:** Setting the clock is for using various timer features of the TV.

The current time will appear every time you press the **INFO** button.

If you disconnect the power cord, you have to set the clock again.

Clock Mode (Auto / Manual)

- Auto:** Set the current time automatically using the time from a digital channel.
 - The antenna must be connected in order to set the time automatically.
- Manual:** Set the current time manually.
 - Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.

Basic Features

Clock Set: Set Month, Day, Year, Hour, Minute and am/pm manually.

- Available only when **Clock Mode** is set to **Manual**.
- You can set the **Month, Day, Year, Hour** and **Manual** directly by pressing the number buttons on the remote control.

DST (Daylight Saving Time) (Off / On): Switches the Daylight Saving Time function on or off.

- This function is only available when the **Clock Mode** is set to **Auto**.

Time Zone: Select your time zone.

- This function is only available when the **Clock Mode** is set to **Auto**.

Using the Sleep Timer

 MENU  → Setup → Time → Sleep Timer → ENTER 

■ **Sleep Timer**  : Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

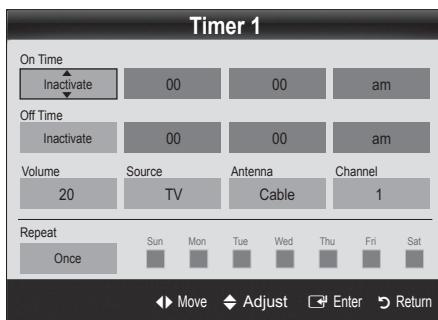
- To cancel the **Sleep Timer**, select **Off**.



Setting the On / Off Timer

 MENU  → Setup → Time → Timer 1 → ENTER 

■ **Timer 1 / Timer 2 / Timer 3:** Three different on / off timer settings can be made. You must set the clock first.



On Time / Off Time: Set the hour, minute, and activate / inactivate. (To activate the timer with the setting you've chosen, set to **Activate**.)

Volume: Set the desired volume level.

Source: Select **TV** or **USB** content to be played when the TV is turned on automatically. (**USB** can be selected only when a USB device is connected to the TV)

Antenna (when the **Source** is set to **TV**): Select **Air** or **Cable**.

Channel (when the **Source** is set to **TV**): Select the desired channel.

Contents (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files to be played when the TV is turned on automatically.

NOTE

- If there is no music file on the USB device or the folder containing a music file is not selected, the Timer function does not operate correctly.
- When there is only one photo file in the USB, the Slide Show will not play.
- If a folder name is too long, the folder cannot be selected.
- Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.

Repeat: Select **Once**, **Everyday**, **Mon~Fri**, **Mon~Sat**, **Sat~Sun** or **Manual** to set at you convenience. If you select **Manual**, you can set up the day you want to activate the timer.

- The  mark indicates the day is selected.

Auto Power Off (available only when the TV is turned on by the Timer): The TV will be automatically turned off after 3 hours of being left idle to prevent overheating.

Locking Programs

 MENU  → Setup → Security → ENTER 

Security

The PIN input screen appears, Enter your 4 digit PIN number.

■ **V-Chip:** The V-Chip feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal identification number) before any of the V-Chip restrictions are set up or changed.

NOTE

- V-Chip** is not available in **HDMI**, **Component** or **PC** mode.
- The default PIN number of a new TV set is "0-0-0-0".
- Allow All:** Press to unlock all TV ratings.
- Block All:** Press to lock all TV ratings.

V-Chip Lock (Off / On): You can block rated TV Programs.

TV Parental Guidelines: You can block TV programs depending on their rating. This function allows you to control what your children are watching.

- **TV-Y:** Young children / **TV-Y7:** Children 7 and over / **TV-G:** General audience / **TV-PG:** Parental guidance / **TV-14:** Viewers 14 and over / **TV-MA:** Mature audience
- **ALL:** Lock all TV ratings. / **TV:** Fantasy violence / **V:** Violence / **S:** Sexual situation / **L:** Adult Language / **D:** Sexually Suggestive Dialog

 The V-Chip will automatically block certain categories dealing with more sensitive material. For example, if you block the **TV-Y** category, then **TV-Y7** will automatically be blocked. Similarly, if you block the **TV-G** category, then all the categories in the young adult group will be blocked (**TV-G**, **TV-PG**, **TV-14** and **TV-MA**). The sub-ratings (**D**, **L**, **S**, **V**) work similarly. So, if you block the **L** sub-rating in **TV-PG**, then the **L** sub-ratings in **TV-14** and **TV-MA** will automatically be blocked.

MPAA Rating: You can block movies depending on their MPAA rating. The Motion Picture Association of America(MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children.

- **G:** General audience (no restrictions). / **PG:** Parental guidance suggested. / **PG-13:** Parents strongly cautioned. / **R:** Restricted. Children under 17 should be accompanied by an adult. / **NC-17:** No children under age 17. / **X:** Adults only. / **NR:** Not rated.

 The V-Chip will automatically block any category that deals with more sensitive material. For example, if you block the PG-13 category, then **R**, **NC-17** and **X** will automatically be blocked.

Canadian English: You can block TV programs depending on their Anglophone Canadian ratings.

- **C:** Programming intended for children under age 8. / **C8+:** Programming generally considered acceptable for children 8 years and over to watch on their own. / **G:** General programming, suitable for all audiences. / **PG:** Parental Guidance. / **14+:** Programming contains themes or content which may not be suitable for viewers under the age of 14. / **18+:** Adult programming.

 The V-Chip will automatically block any category that deals with more sensitive material. For example, if you block the G category, then **PG**, **14+** and **18+** will automatically be blocked.

Canadian French: You can block TV programs depending on their French Canadian rating.

- **G:** General / **8 ans+:** Programming generally considered acceptable for children 8 years and over to watch on their own. / **13 ans+:** Programming may not be suitable for children under the age of 13. / **16 ans+:** Programming is not suitable for children under the age of 16. / **18 ans+:** Programming restricted to adults.

 The V-Chip will automatically block any category that deals with more sensitive material. For example, if you block the **8 ans+** category, then **13 ans+**, **16 ans+** and **18 ans+** will automatically be blocked also.

Downloadable U.S. Rating: Parental restriction information can be used while watching DTV channels.

NOTE

- If information is not downloaded from the broadcasting station, the **Downloadable U.S. Rating** menu is deactivated.
- Parental restriction information is automatically downloaded while watching DTV channels. It may take several seconds.
- The **Downloadable U.S. Rating** menu is available for use after information is downloaded from the broadcasting station. However, depending on the information from the broadcasting station, it may not be available for use.
- Parental restriction levels differ depending on the broadcasting station. The default menu name and **Downloadable US Rating** change depending on the downloaded information.
- Even if you set the on-screen display to another language, the **Downloadable U.S. Rating** menu will appear in English only.
- The rating will automatically block certain categories that deal with more sensitive material.
- The rating titles (For example: Humor Level..etc) and TV ratings (For example: DH, MH, H..etc) may differ depending on the broadcasting station.

- **Change PIN:** The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them. As soon as the 4 digits are entered, the **Confirm New PIN** screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized.

Basic Features

- **Menu Transparency (Bright / Dark):** Set the Transparency of the menu.
- **Melody (Off / Low / Medium / High):** Set so that a melody plays when the TV is turned on or off.

Picture In Picture (PIP)

PIP TOOLS

You can watch the TV tuner and one external video source simultaneously. **PIP** (Picture-in-Picture) does not function in the same mode.

 MENU  → Setup → PIP → ENTER 

NOTE

- For PIP sound, refer to the **Sound Select** instructions.
- If you turn the TV off while watching in PIP mode, the PIP window will disappear.
- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
- While **V-Chip** is in operation, the **PIP** function cannot be used.
- PIP Settings

| Main picture | Sub picture |
|---|-------------|
| Component, HDMI1/DVI, HDMI2, HDMI3, HDMI4, PC | TV |

- **PIP (Off / On):** Activate or deactivate the PIP function.
- **Air/Cable (Air / Cable):** Select either **Air** or **Cable** as the input source for the sub-screen.
- **Channel:** Select the channel for the sub-screen.
- **Size ( / ):** Select a size for the sub-picture.
- **Position ( /  /  / ):** Select a position for the sub-picture.
- **Sound Select (Main / Sub):** You can choose the desired sound (**Main / Sub**) in **PIP** mode.

Support Menu

 MENU  → Support → ENTER 

Self Diagnosis

 Self Diagnostic might take few seconds, this is part of the normal operation of the TV.

- **Picture Test:** Use to check for picture problems.
 - Yes:** If the test pattern does not appear or there is noise in the test pattern, select Yes. There may be a problem with the TV. Contact Samsung's Call Center for assistance (1-800-SAMSUNG).
 - No:** If the test pattern is properly displayed, select No. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.
- **Sound Test:** Use the built-in melody sound to check for sound problems.
 -  If you hear no sound from the TV's speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu.
 -  The melody will be heard during the test even if **Speaker Select** is set to **External Speaker** or the sound is muted by pressing the **MUTE** button.
 - Yes:** If you can hear sound only from one speaker or not at all during the sound test, select Yes. There may be a problem with the TV. Contact Samsung's Call Center for assistance (1-800-SAMSUNG).
 - No:** If you can hear sound from the speakers, select No. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.
- **Signal Information:** (Digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- **Troubleshooting:** If the TV seems to have a problem, refer to this description.
 -  If none of these troubleshooting tips apply, contact the Samsung customer service center.

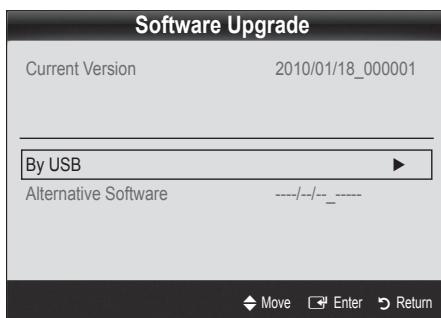
Basic Features

Software Upgrade

Software Upgrade can be performed downloading the latest firmware from "www.samsung.com" to a USB memory device.

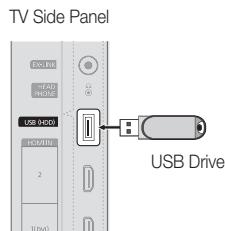
Current Version - the software already installed in the TV.

☞ Software is represented as "Year/Month/Day_Version".



Installing the Latest Version

- **By USB:** Insert a USB drive containing the firmware upgrade file, downloaded from "www.samsung.com," into the TV. Please be careful not to disconnect the power or remove the USB drive until upgrades are complete. The TV will be turned off and on automatically after completing the firmware upgrade. When software is upgraded, video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.



- **Alternative Software** (Not available)

HD Connection Guide

Refer to this information when connecting external devices to the TV.

Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centers and how to download products and software.

Advanced Features

Media Play



Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device.



MENU → Application → Media Play
(USB) → ENTER

MediaPlay

Videos



SUM

Enter

Connecting a USB Device

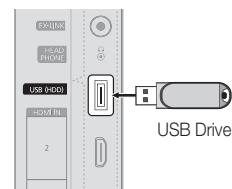
1. Turn on your TV.
2. Connect a USB device containing photo, music and/or movie files to the **USB (HDD)** port on the back or side panel of the TV.
3. When USB is connected to the TV, popup window appears. Then you can select **Media Play**.

It might not work properly with unlicensed multimedia files.

Need-to-Know List before using **Media Play (USB)**

- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- Media Play only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported). Devices should be connected directly to the TV's USB port.
- Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Connect a USB HDD to the dedicated port, **USB (HDD)** port.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360X8640 pixels.
- For unsupported or corrupted files, the "Not Supported File Format" message is displayed.
- If the files are sorted by Basic View, up to 1000 files can be displayed in each folder.
- MP3 files with DRM that have been downloaded from a non-free site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution and management of the content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
- If the TV has been no input during time set in **Auto Protection Time**, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.
- If a USB extension cable is used, the USB device may not be recognized or the files on the device may not be read.
- If a USB device connected to the TV is not recognized, the list of files on the device is corrupted or a file in the list is not played, connect the USB device to the PC, format the device and check the connection.
- If a file deleted from the PC is still found when Media Play is run, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.

TV Rear Panel



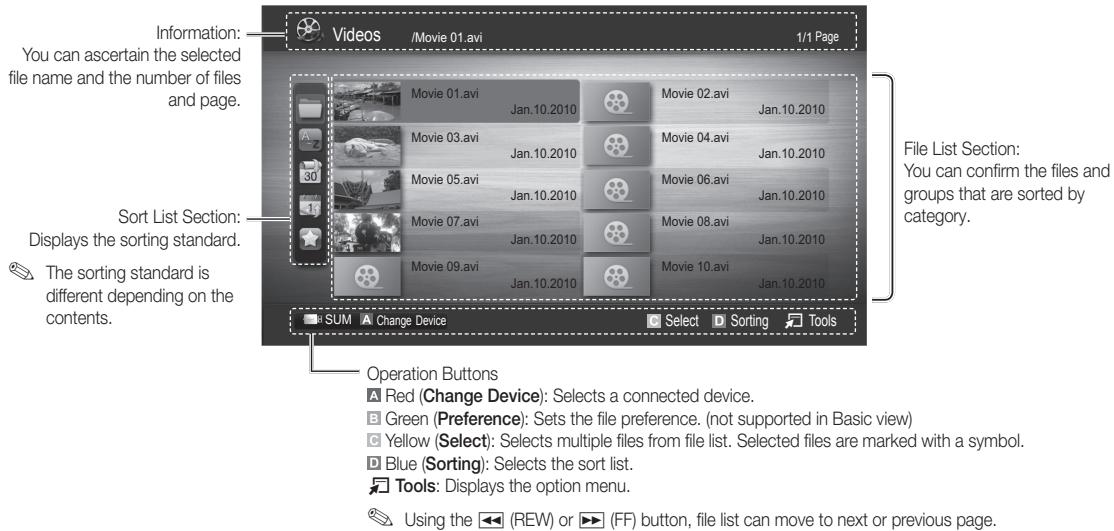
USB Drive

Advanced Features

Screen Display

Move to the desired file using the up/down/right/left buttons and then press the **ENTER ↴** or **▶** (Play) button. The file is played.

☞ Supports the **View Devices** and **Home** in **Media Play** homepage.



Videos

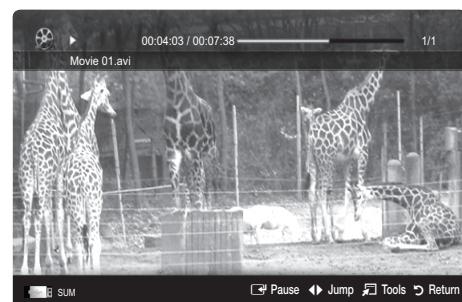
Playing Video

1. Press the **◀** or **▶** button to select **Videos**, then press the **ENTER ↴** button in the **Media Play** menu.
2. Press the **◀/▶/▲/▼** button to select the desired video in the file list.
3. Press the **ENTER ↴** button or **▶** (Play) button.
 - The selected file is displayed on the top with its playing time.
 - If video time information is unknown, play time and progress bar are not displayed.
 - During video playback, you can search using the **◀** and **▶** button.

☞ In this mode, you can enjoy movie clips contained on a Game, but you cannot play the Game itself.

- Supported Subtitle Formats

| Name | File extension | Format |
|------------------------|----------------|--------------|
| MPEG-4 time-based text | .txt | XML |
| SAMI | .smi | HTML |
| SubRip | .srt | string-based |
| SubViewer | .sub | string-based |
| Micro DVD | .sub or .txt | string-based |



- Supported Video Formats

| File Extension | Container | Video Codec | Resolution | Frame rate (fps) | Bit rate (Mbps) | Audio Codec |
|-----------------------|------------|-----------------------------|------------|------------------|-----------------|-------------------------------------|
| *.avi *.mkv | AVI MKV | Divx 3.11 / 4.x / 5.1 / 6.0 | 1920x1080 | 6 ~ 30 | 8 | MP3 / AC3 / LPCM / ADPCM / DTS Core |
| | | XviD | 1920x1080 | 6 ~ 30 | 8 | |
| | | H.264 BP / MP / HP | 1920x1080 | 6 ~ 30 | 25 | |
| | | MPEG4 SP / ASP | 1920x1080 | 6 ~ 30 | 8 | |
| *.asf | ASF | Divx 3.11 / 4.x / 5.1 / 6.0 | 1920x1080 | 6 ~ 30 | 8 | MP3 / AC3 / LPCM / ADPCM / WMA |
| | | XviD | 1920x1080 | 6 ~ 30 | 8 | |
| | | H.264 BP / MP / HP | 1920x1080 | 6 ~ 30 | 25 | |
| | | MPEG4 SP / ASP | 1920x1080 | 6 ~ 30 | 8 | |
| *.wmv | ASF | Window Media Video v9 | 1920x1080 | 6 ~ 30 | 25 | WMA |
| *.mp4 | MP4 | H.264 BP / MP / HP | 1920x1080 | 6 ~ 30 | 25 | MP3 / ADPCM / AAC |
| | | MPEG4 SP / ASP | 1920x1080 | 6 ~ 30 | 8 | |
| | | XVID | 1920x1080 | 6 ~ 30 | 8 | |
| *.3gp | 3GPP | H.264 BP / MP / HP | 1920x1080 | 6 ~ 30 | 25 | ADPCM / AAC / HE-AAC |
| | | MPEG4 SP / ASP | 1920x1080 | 6 ~ 30 | 8 | |
| *.vro | VRO VOB | MPEG1 | 1920x1080 | 24 / 25 / 30 | 30 | AC3 / MPEG / LPCM |
| | | MPEG2 | 1920x1080 | 24 / 25 / 30 | 30 | |
| *.mpg *.mpeg | PS | MPEG1 | 1920x1080 | 24 / 25 / 30 | 30 | AC3 / MPEG / LPCM / AAC |
| | | MPEG2 | 1920x1080 | 24 / 25 / 30 | 30 | |
| | | H.264 | 1920x1080 | 6 ~ 30 | 25 | |
| *.ts *.tp *.trp | TS | MPEG2 | 1920x1080 | 24 / 25 / 30 | 30 | AC3 / AAC / MP3 / DD+ / HE-AAC |
| | | H.264 | 1920x1080 | 6 ~ 30 | 25 | |
| | | VC1 | 1920x1080 | 6 ~ 30 | 25 | |

Other Restrictions

 NOTE

- If there are problems with the contents of a codec, the codec will not be supported.
- If the information for a Container is incorrect and the file is in error, the Container will not be able to play correctly.
- Sound or video may not work if the contents have a standard bitrate/frame rate above the compatible Frame/sec listed in the table above.
- If the Index Table is in error, the Seek (Jump) function is not supported.

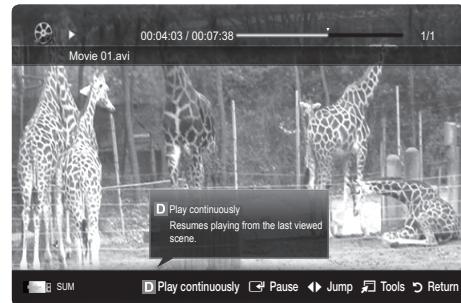
| Video Decoder | Audio Decoder |
|---|---|
| <ul style="list-style-type: none"> Supports up to H.264, Level 4.1 H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported. GMC is not supported. H.263 is not supported. | <ul style="list-style-type: none"> Supports up to WMA 7, 8, 9, STD WMA 9 PRO does not support 2 channel excess multi channel or lossless audio. WMA sampling rate 22050Hz mono is not supported. |

Advanced Features

Playing movie continuously (Resume Play)

If you exit the playing movie function, the movie can be played later from the point where it was stopped.

1. Select the movie file you want to play continuously by pressing the **◀** or **▶** button to select it from the file list section.
2. Press the **▶** (Play) / **ENTER**  button.
3. Select **Play Continuously** (Resume Play) by pressing the Blue button. The Movie will begin to play from where it was stopped.
 - ☞ The Blue button is available when resuming play.
 - ☞ If the **Continuous Movie Play Help** function is set to **On** in the **Settings** menu, a pop-up message will appear when you resume play a movie file.



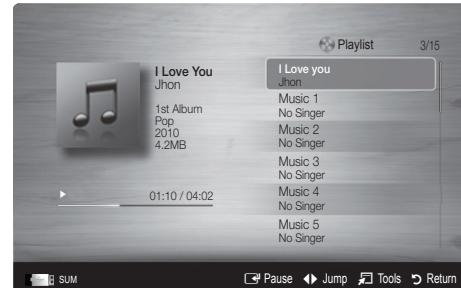
Music

Playing Music

1. Press the **◀** or **▶** button to select **Music**, then press the **ENTER**  button in the **Media Play** menu.
2. Press the **◀/▶/▲/▼** button to select the desired Music file in the file list.
3. Press the **ENTER**  button or **▶** (Play) button.
 - During music playback, you can search using the **◀** and **▶** button.
 - **◀** (REW) and **▶** (FF) buttons do not function during play.

☞ Only displays the files with MP3 and PCM file extension. Other file extensions are not displayed, even if they are saved on the same USB device.

☞ If the sound is abnormal when playing MP3 files, adjust the **Equalizer** in the **Sound** menu. (An over-modulated MP3 file may cause a sound problem.)



Photos

Viewing a Photo (or Slide Show)

1. Press the **◀** or **▶** button to select **Photos**, then press the **ENTER**  button in the **Media Play** menu.
2. Press the **◀/▶/▲/▼** button to select the desired photo in the file list.
3. Press the **ENTER**  button or **▶** (Play) button.
 - While a photo list is displayed, press the **▶** (Play) / **ENTER**  button on the remote control to start the slide show.
 - All files in the file list section will be displayed in the slide show.
 - During the slide show, files are displayed in order.

☞ Music files can be automatically played during the Slide Show if the **Background Music** is set to **On**.

☞ The **BGM Mode** cannot be changed until the BGM has finished loading.



Playing Multiple Files

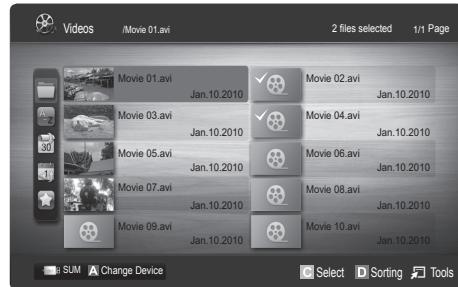
Playing selected video/music/photo files

- Press the Yellow button in the file list to select the desired file.
- Repeat the above operation to select multiple files.

NOTE

- The ✓ mark appears to the left of the selected files.
- To cancel a selection, press the Yellow button again.
- To deselect all selected files, press the **TOOLS** button and select **Deselect All**.

- Press the **TOOLS** button and select **Play Selected Contents**.



Playing the video/music/photo file group

- While a file list is displayed, move to any file in the desired group.
- Press the **TOOLS** button and select **Play Current Group**.

Media Play - Additional Functions

Sorting the file list

Press the Blue button in the file list to sort the files.

| Category | Operation | Videos | Music | Photos |
|---------------|--|--------|-------|--------|
| Basic View | Displays the whole folder. You can view the photo by selecting the folder. | ✓ | ✓ | ✓ |
| Title | Sorts and displays the file title in Symbol/Number/Alphabet/Special order. | ✓ | ✓ | ✓ |
| Preference | Sorts and displays the file by preference. You can change the file preference in the file list section using the Green button. | ✓ | ✓ | ✓ |
| Latest Date | Sorts and shows files by the latest date. | ✓ | | ✓ |
| Earliest Date | Sorts and shows files by the earliest date. | ✓ | | ✓ |
| Artist | Sorts the music file by artist in alphabetical order. | | ✓ | |
| Album | Sorts the music file by album in alphabetical order. | | ✓ | |
| Genre | Sorts music files by the genre. | | ✓ | |
| Mood | Sorts music files by the mood. You can change the music mood information. | | ✓ | |
| Monthly | Sorts and shows photo files by month. | | | ✓ |

Advanced Features

Videos/Music/Photos Play Option menu

During file playback, press the **TOOLS** button.

| Category | Operation | Videos | Music | Photos |
|--|---|--------|-------|--------|
| Title | You can move directly to another Title. | ▼ | | |
| Repeat Mode | You can play movie and music files repeatedly. | ▼ | ▼ | |
| Picture Size (Mode1 / Mode2 / Original) | You can adjust the picture size to your preference. | ▼ | | |
| Picture Setting | You can adjust the picture setting. (p. 15, 16, 17, 18) | ▼ | | ▼ |
| Sound Setting | You can adjust the sound setting. (p. 18, 19) | ▼ | ▼ | ▼ |
| Subtitle Setting | You can play the video with Subtitles. This function only works if the subtitles are the same file name as the video. | ▼ | | |
| Stop Slide Show / Start Slide Show | You can start or stop a slide show. | | | ▼ |
| Slide Show Speed | You can select the slide show speed during the slide show. | | | ▼ |
| Background Music | You can set various slide show effects. | | | ▼ |
| Zoom | You can zoom into images in full screen mode. | | | ▼ |
| Rotate | You can rotate images in full screen mode. | | | ▼ |
| Information | You can see detailed information about the played file. | ▼ | ▼ | ▼ |

Settings

Using the Setup Menu

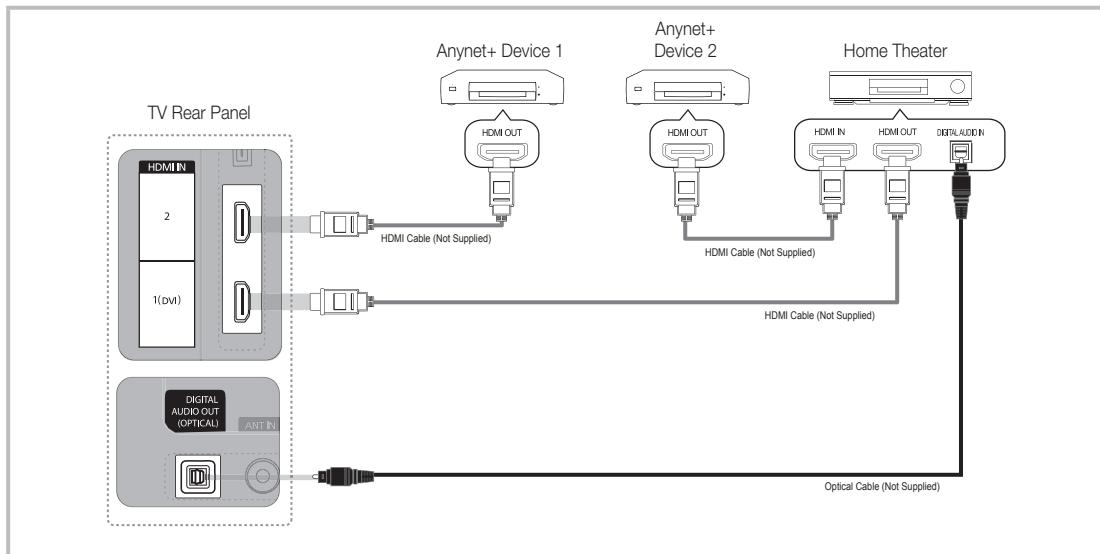
- **Continuous Movie Play Help (Resume Play) (On / Off):** Select to display the help pop-up message for continuous movie playback.
- **Get DivX® VOD registration code:** Shows the registration code authorized for the TV. If you connect to the DivX web site and register, you can download the VOD registration file. If you play the VOD registration using Media Play, the registration is completed.
 - ☞ For more information on DivX® VOD, visit "www.DivX.com."
- **Get DivX® VOD deactivation code:** When DivX® VOD is not registered, the registration deactivation code is displayed. If you execute this function when DivX® VOD is registered, the current DivX® VOD registration is deactivated.
- **Information:** Select to view information about the connected device.

Anynet+

What is Anynet+? TOOLS

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

To connect to a Samsung Home Theater



1. Connect the **HDMI IN (1(DVI) or 2)** jack on the TV and the **HDMI OUT** jack of the corresponding Anynet+ device using an **HDMI cable**.
2. Connect the **HDMI IN** jack of the home theater and the **HDMI OUT** jack of the corresponding Anynet+ device using an **HDMI cable**.

NOTE

- Connect the Optical cable between the **DIGITAL AUDIO OUT (OPTICAL)** jack on your TV and the Digital Audio Input on the Home Theater.
- When following the connection above, the Optical jack only outputs 2 channel audio. You will only hear sound from the Home Theater's Front, Left and Right speakers and the subwoofer. If you want to hear 5.1 channel audio, connect the **DIGITAL AUDIO OUT (OPTICAL)** jack on the DVD / Satellite Box (i.e. Anynet Device 1 or 2) directly to the Amplifier or Home Theater, not the TV.
- You can connect only one Home Theater.
- You can connect an Anynet+ device using the HDMI cable. Some HDMI cables may not support Anynet+ functions.
- Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.
- Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

Advanced Features

Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

| Anynet+ Menu | Description |
|------------------------------------|--|
| View TV | Changes Anynet+ mode to TV broadcast mode. |
| Device List | Shows the Anynet+ device list. |
| (device_name) MENU | Shows the connected device menus. E.g. If a DVD recorder is connected, the disc menu of the DVD recorder will appear. |
| (device_name) INFO | Shows the play menu of the connected device. E.g. If a DVD recorder is connected, the play menu of the DVD recorder will appear. |
| Recording: (*recorder) | Starts recording immediately using the recorder. (This is only available for devices that support the recording function.) |
| Stop Recording: (*recorder) | Stops recording. |
| Receiver | Sound is played through the receiver. |

If more than one recording device is connected, they are displayed as (*recorder) and if only one recording device is connected, it will be represented as (*device_name).

Setting Up Anynet+

 MENU  → Application → Anynet+ (HDMI-CEC) → ENTER 

■ Setup

Anynet+ (HDMI-CEC) (Off / On): To use the Anynet+ Function, **Anynet+ (HDMI-CEC)** must be set to **On**.

 When the **Anynet+ (HDMI-CEC)** function is disabled, all the Anynet+ related operations are deactivated.

Auto Turn Off (No / Yes): Setting an Anynet+ Device to turn off automatically when the TV is turned off.

 If **Auto Turn Off** is set to **Yes**, running external devices will turn off at the same time as the TV powers off. However, a device may not turn off if recording is in progress.

 May not be enabled depending on the device.

Switching between Anynet+ Devices

1. Anynet+ devices connected to the TV are listed.

 If you cannot find a device you want, press the Red button to refresh the list.

2. Select a device and press the **ENTER**  button. You can switch to the selected device.

 The **Device List** menu will only appear when you set **Anynet+ (HDMI-CEC)** to **On** in the **Application** menu.

• Switching to the selected device may take up to 2 minutes. You cannot cancel the operation during the switching operation.

• If you have selected external input mode by pressing the **SOURCE** button, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.

Recording

You can make a recording of a TV Program using a Samsung recorder.

1. Select **Recording**.

 When there are more than two recording devices

• When multiple recording devices are connected, the recording devices are listed. Select one recording device in the **Device List**.

 When the recording device is not displayed, select **Device List** and press the Red button to search devices.

2. Press the **EXIT** button to exit.

 You can record the source streams by selecting **Recording:** (device_name).

 Pressing the  (REC) button will record whatever you are currently watching. If you are watching video from another device, the video from the device is recorded.

 Before recording, check whether the antenna jack is properly connected to the recording device. To properly connect an antenna to a recording device, refer to the recording device's users manual.

Listening through a Receiver

You can listen to sound through a receiver (i.e Home Theater) instead of the **TV Speaker**.

1. Select **Receiver** and set to **On**.

2. Press the **EXIT** button to exit.

- ☞ If your receiver supports audio only, it may not appear in the device list.
- ☞ The receiver will work when you have properly connected the optical in jack of the receiver to the **DIGITAL AUDIO OUT (OPTICAL)** jack of the TV.
- ☞ When the receiver (i.e Home Theater) is set to On, you can hear sound output from the TV's Optical jack. When the TV is displaying a DTV (air) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD and is connected to the TV via HDMI, only 2 channel sound will be heard from the receiver.

NOTE

- You can only control Anynet+ devices using the TV remote control, not the buttons on the TV.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers' products.

Troubleshooting for Anynet+

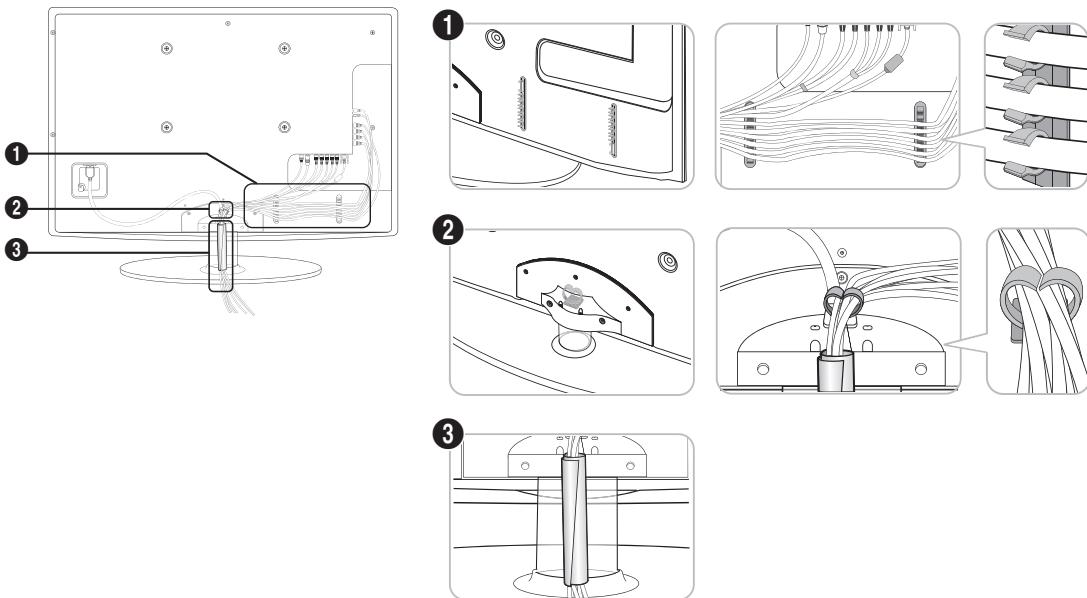
| Problem | Possible Solution |
|--|--|
| Anynet+ does not work. | <ul style="list-style-type: none"> • Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. • Only one receiver (home theater) can be connected. • Check if the Anynet+ device power cord is properly connected. • Check the Anynet+ device's Video/Audio/HDMI cable connections. • Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. • Check whether the TV remote control is in TV mode. • Check whether the remote control is Anynet+ compatible. • Anynet+ doesn't work in certain situations. (Searching channels, operating Media Play (USB) or Plug & Play (initial setup), etc.) • When connecting or removing the HDMI cable, please make sure to search devices again or turn your TV off and on again. • Check if the Anynet+ Function of Anynet+ device is set on. |
| I want to start Anynet+. | <ul style="list-style-type: none"> • Check if the Anynet+ device is properly connected to the TV and check if the Anynet+ (HDMI-CEC) is set to On in the Anynet+ Setup menu. • Press the TOOLS button to display the Anynet+ menu and select a menu you want. |
| I want to exit Anynet+. | <ul style="list-style-type: none"> • Select View TV in the Anynet+ menu. • Press the SOURCE button on the TV remote control and select a non- Anynet+ device. • Press CH ▲, CH ▼, PRE-CH, and FAV.CH to change the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.) |
| The message "Connecting to Anynet+ device..." appears on the screen. | <ul style="list-style-type: none"> • You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. • Use the remote control when the Anynet+ setting or switching to view mode is complete. |
| The Anynet+ device does not play. | <ul style="list-style-type: none"> • You cannot use the play function when Plug & Play (initial setup) is in progress. |
| The connected device is not displayed. | <ul style="list-style-type: none"> • Check whether or not the device supports Anynet+ functions. • Check whether or not the HDMI cable is properly connected. • Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. • Search Anynet+ devices again. • You can connect an Anynet+ device using the HDMI cable only. Some HDMI cables may not support Anynet+ functions. • If connection is terminated because there has been a power interruption or the HDMI cable has been disconnected, please repeat the device scan. |
| The TV Program cannot be recorded. | <ul style="list-style-type: none"> • Check whether the antenna jack on the recording device is properly connected. |
| The TV sound is not output through the receiver. | <ul style="list-style-type: none"> • Connect the optical cable between TV and the receiver. |

Other Information

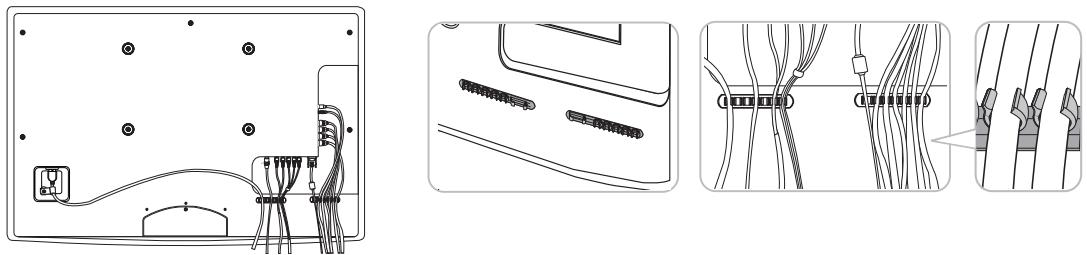
Assembling the Cables

Stand Type

Enclose the cables in the Cable Tie so that the cables are not visible through the transparent stand.



Wall-Mount Type

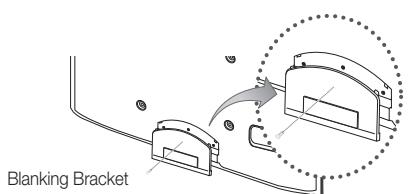


Do not pull the cables too hard when arranging them. This may cause damage to the product's connection terminals.

Installing the Wall Mount

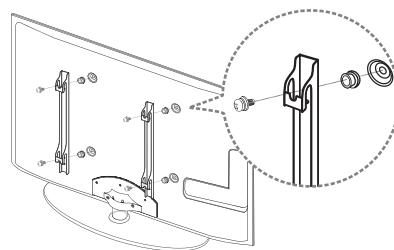
Attaching the Blanking Bracket

When installing the TV onto a wall, attach the Blanking Bracket as shown.



Preparing before installing Wall-Mount

To install a wall-mount from another manufacturer, use the Holder-Ring



Installing the Wall Mount Kit

The wall mount kit (sold separately) allow you to mount the TV on the wall.

For detailed information on installing the wall mount, see the instructions provided with the wall mount. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV on your own.

Wall Mount Kit Specifications (VESA)

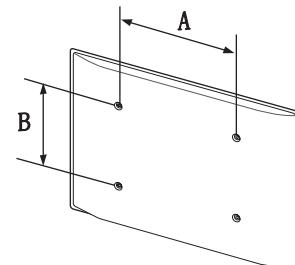
The wall mount kit is not supplied, but sold separately.

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If installed on a ceiling or slanted wall, it may fall and result in severe personal injury.

NOTE

- Standard dimensions for wall mount kits are shown in the table below.
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided.
- Do not use screws that do not comply with the VESA standard screw specifications.
- Do not use screws that are longer than the standard dimension or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set.
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too strongly; this may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt.
- Always use two people to mount the TV to a wall.

| Product Family | inches | VESA Spec. (A * B) | Standard Screw | Quantity |
|--------------------------|--------|--------------------|----------------|----------|
| LED - TV [Ultra-Slim] | 19~22 | 75 X 75 | M4 | 4 |
| | 23~29 | 200 X 100 | | |
| | 32~37 | 200 X 200 | | |
| | 40~55 | 400 X 400 | | |
| | 56~65 | 600 X 400 | | |



Do not install your Wall Mount Kit while your TV is turned on. It may result in personal injury due to electric shock.

Other Information

Anti-theft Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. The appearance and locking method may differ from the illustration depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use.

- ☞ Please find a "K" icon on the rear of the TV. A kensington slot is beside the "K" icon.

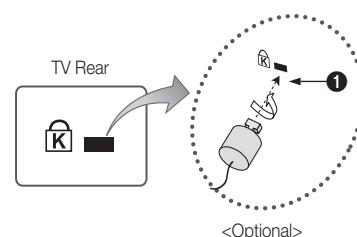
To lock the product, follow these steps:

1. Wrap the Kensington lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington lock cable.
3. Insert the locking device into the Kensington slot on the product ①.
4. Lock the lock.

☞ These are general instructions. For exact instructions, see the User manual supplied with the locking device.

☞ The locking device has to be purchased separately.

☞ The location of the Kensington slot may be different depending on the TV model.



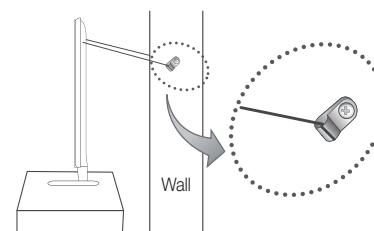
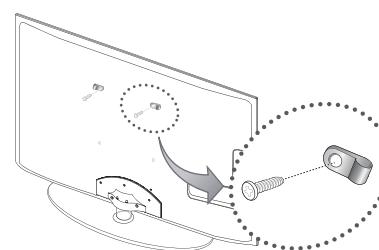
Securing the TV to the Wall



Caution: Pulling, pushing, or climbing on the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided in the included Safety Flyer. For added stability and safety, install the anti-fall device as follows.

To Avoid the TV from Falling

1. Put the screws into the clamps and firmly fasten them onto the wall. Confirm that the screws have been firmly installed onto the wall.
 - ☞ You may need additional material such as an anchor depending on the type of wall.
 - ☞ Since the necessary clamps, screws, and string are not supplied, please purchase these additionally.
2. Remove the screws from the center back of the TV, put the screws into the clamps, and then fasten the screws onto the TV again.
 - ☞ Screws may not be supplied with the product. In this case, please purchase the screws of the following specifications.
 - For a 19 ~ 22 inch: M4
 - For a 23 ~ 65 inch: M8
3. Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong string and then tie the string tightly.
 - ☞ **NOTE**
 - Install the TV near to the wall so that it does not fall backwards.
 - It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV.
 - Untie the string before moving the TV.
4. Verify all connections are properly secured. Periodically check connections for any sign of fatigue for failure. If you have any doubt about the security of your connections, contact a professional installer.



Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, visit "www.samsung.com," then click on Support, or call Samsung customer service at 1-800-SAMSUNG.

| Issues | Solutions and Explanations |
|--|---|
| Poor picture | <p>First of all, please perform the Picture Test and confirm that your TV is properly displaying test image. (go to MENU - Support - Self Diagnosis - Picture Test) (p. 23)</p> <p>If the test image is properly displayed, the poor picture may caused by the source or signal.</p> |
| The TV image does not look as good as it did in the store. | <ul style="list-style-type: none"> • If you have an analog cable/satellite box, upgrade to an HD digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. • Cable/Satellite subscribers: Try HD stations from the channel line up. • Antenna connection: Try HD stations after performing Auto program. ☞ Many HD channels are upscaled from SD(Standard Definition) contents. • Adjust the Cable/Sat box video output resolution to 1080i or 720p. |
| The picture is distorted: macroblock error, small block, dots, pixelization. | <ul style="list-style-type: none"> • Compression of video contents may cause picture distortion, especially in fast moving pictures such as sports and action movies. • Low signal level can cause picture distortion. This is not a TV problem. • Mobile phones used close to the TV (cca up to 1m) may cause noise in picture on analog and digital TV. |
| Color is wrong or missing. | <ul style="list-style-type: none"> • If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen. |
| There is poor color or brightness. | <ul style="list-style-type: none"> • Adjust the Picture options in the TV menu. (go to Picture mode / Color / Brightness / Sharpness) (p. 15) • Adjust Energy Saving option in the TV menu. (go to MENU – Picture – Eco Solution – Energy Saving) (p. 16) • Try resetting the picture to view the default picture settings. (go to MENU - Picture - Reset (p. 18) |
| There is a dotted line on the edge of the screen. | <ul style="list-style-type: none"> • If the picture size is set to Screen Fit, change it to 16:9 (p. 17). • Change cable/satellite box resolution. |
| The picture is black and white. | <ul style="list-style-type: none"> • If you are using an AV composite input, connect the video cable (yellow) to the Green jack of component input 1 on the TV. |
| When changing channels, the picture freezes or is distorted or delayed. | <ul style="list-style-type: none"> • If connected with a cable box, please try to reset the cable box. (reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes) • Set the output resolution of the cable box to 1080i or 720p. |
| Sound Problem | <p>First of all, please perform the Sound Test to confirm that your TV audio is properly operating. (go to MENU - Support - Self Diagnosis - Sound Test) (p. 23)</p> <p>If the audio is OK, the sound problem may caused by the source or signal.</p> |
| There is no sound or the sound is too low at maximum volume. | <ul style="list-style-type: none"> • Please check the volume the of device (Cable/Sat Box, DVD, Blu-ray etc) connected to your TV. |
| The picture is good but there is no sound. | <ul style="list-style-type: none"> • Set the Speaker Select option to TV Speaker in the sound menu (p. 19). • If you are using an external device, make sure the audio cables are connected to the correct audio input jacks on the TV. • If you are using an external device, check the device's audio output option (ex. you may need to change your cable box's audio option to HDMI when you have a HDMI connected to your TV). • If you are using a DVI to HDMI cable, a separate audio cable is required. • If your TV has a headphone jack, make sure there is nothing plugged into it. • Reboot the connected device by reconnecting the device's power cable. |
| The speakers are making an inappropriate noise. | <ul style="list-style-type: none"> • Check the cable connections. Make sure a video cable is not connected to an audio input. • For antenna or Cable connections, check the signal strength. Low signal level may cause sound distortion. • Perform the Sound Test as explained above. |

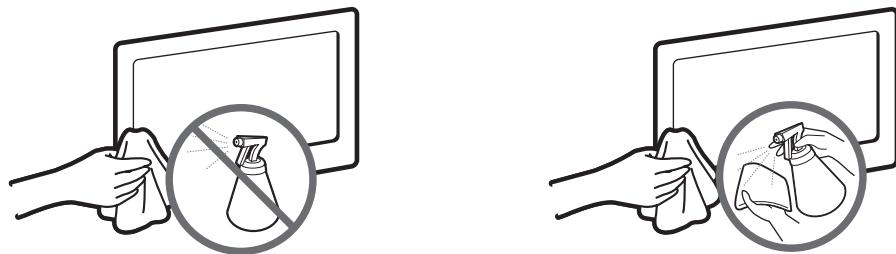
Other Information

| Issues | Solutions and Explanations |
|--|---|
| No Picture, No Video | |
| The TV won't turn on. | <ul style="list-style-type: none"> Make sure the AC power cord is securely plugged in to the wall outlet and the TV. Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to "Remote control does not work" below. |
| The TV turns off automatically. | <ul style="list-style-type: none"> Ensure the Sleep Timer is set to Off in the Setup menu (p. 20). If your PC is connected to the TV, check your PC power settings. Make sure the AC power cord is plugged in securely to the wall outlet and the TV. When watching TV from an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal. |
| There is picture/Video. | <ul style="list-style-type: none"> Check cable connections (remove and reconnect all cables connected to the TV and external devices). Set your external devices' (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is : HDMI, TV's input : HDMI Make sure your connected devices are powered on. Be sure to select the TV's correct source by pressing the SOURCE button on the remote control. Reboot the connected device by reconnecting the device's power cable. |
| RF(Cable/Antenna) Connection | |
| The TV is not receiving all channels. | <ul style="list-style-type: none"> Make sure the coaxial cable is connected securely. Please try Auto Program to add available channels to the channel list. Go to MENU - Channel - Auto Program then select Auto and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC) (p. 14) Verify the Antenna is positioned correctly. |
| No Caption on digital channels. | <ul style="list-style-type: none"> Check Caption Setup menu. Try changing Caption Mode Service1 to CC1 (p. 22). Some channels may not have caption data. |
| The picture is distorted: macroblock error, small block, dots, pixelization. | <ul style="list-style-type: none"> Compression of video contents may cause picture distortion, especially with fast moving pictures such as sports and action movies. A low signal can cause picture distortion. This is not a TV problem. |
| PC Connection | |
| A "Mode Not Supported" message appears. | <ul style="list-style-type: none"> Set your PC's output resolution so they match the resolutions supported by the TV (p. 11). |
| "PC" is always shown on the source list, even if a PC is not connected. | <ul style="list-style-type: none"> This is normal; "PC" is always shown on the source list, regardless of whether a PC is connected. |
| The video is OK but there is no audio. | <ul style="list-style-type: none"> If you are using an HDMI connection, check the audio output setting on your PC. |
| Others | |
| Purple/green rolling horizontal bars and buzzing noise from the TV speakers with Component cable connection. | <ul style="list-style-type: none"> Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection. |
| The picture won't display in full screen. | <ul style="list-style-type: none"> HD channels will have black bars on either side of the screen when displaying upscaled SD (4:3) contents. Black bars on the top and bottom will appear during movies that have aspect ratios different from your TV. Adjust the picture size options on your external device or TV to full screen. |
| The remote control does not work. | <ul style="list-style-type: none"> Replace the remote control batteries with the poles (+/-) in the right direction. Clean the sensor's transmission window on the remote. Try pointing the remote directly at the TV from 5~6 feet away. |
| The cable/set top box remote control doesn't turn the TV on or off, or adjust the volume. | <ul style="list-style-type: none"> Program the Cable/Set remote control to operate the TV. Refer to the Cable/Set user manual for the SAMSUNG TV code. |

| Issues | Solutions and Explanations |
|---|--|
| A "Mode Not Supported" message appears. | <ul style="list-style-type: none"> Check the supported resolution of the TV, and adjust the external device's output resolution accordingly. Refer to the resolution settings on page 11 of this manual. |
| Caption on TV menu is greyed out. | <ul style="list-style-type: none"> Caption can not be selected in the TV menu when connected via HDMI or Component (p. 22). Caption must be activated on the external device (p. 22). |
| There is a plastic smell from the TV. | <ul style="list-style-type: none"> This smell is normal and will dissipate over time. |
| The TV Signal Information is unavailable in the Self Diagnostic Test menu. | <ul style="list-style-type: none"> This function is only available with digital channels from an Antenna / RF/Coax connection (p. 23). |
| The TV is tilted to the side. | <ul style="list-style-type: none"> Remove the base stand from the TV and reassemble it. |
| The channel menu is greyed out (unavailable). | <ul style="list-style-type: none"> The Channel menu is only available when the TV source is selected. |
| Your settings are lost after 30 minutes or every time the TV is turned off. | <ul style="list-style-type: none"> If the TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Change the settings from Store Demo mode to Home Use mode in the Plug & Play procedure. Press the SOURCE button to select TV mode, and go to MENU → Setup → Plug & Play → ENTER □ (p. 8). |
| You have intermittent loss of audio or video. | <ul style="list-style-type: none"> Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to a wall, we recommend using cables with 90 degree connectors. |
| You see small particles when you look closely at the edge of the frame of the TV. | <ul style="list-style-type: none"> This is part of the product's design and is not a defect. |
| The PIP menu is not available. | <ul style="list-style-type: none"> PIP functionality is only available when you are using a HDMI, PC or Component source. |
| POP (TV's internal banner ad) appears on the screen. | <ul style="list-style-type: none"> Select Home Use under Plug & Play mode. For details, refer to Plug & Play Feature (p. 8). |

☞ This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

Storage and Maintenance



Do not spray water or a cleaning agent directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.

Clean the product with a soft cloth dapped in a small amount of water.

Other Information

License



Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.



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DivX Certified to play DivX video up to HD 1080p, including premium content.

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ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play DivX Video-on-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD.
Pat. 7,295,673; 7,460,688; 7,519,274

Open Source License Notice

In the case of using open source software, Open Source Licenses are available on the product menu.

Open Source License Notice is written only English.

Specifications

| | | | |
|------------------------------|---|--|--|
| Display Resolution | 1360 x 768 | | |
| Environmental Considerations | | | |
| Operating Temperature | 50°F to 104°F (10°C to 40°C) | | |
| Operating Humidity | 10% to 80%, non-condensing | | |
| Storage Temperature | -4°F to 113°F (-20°C to 45°C) | | |
| Storage Humidity | 5% to 95%, non-condensing | | |
| Model Name | UN19C4000 | UN22C4000 / UN22C4010 | UN26C4000 |
| Screen Size (Diagonal) | 19 inches (18.5 inches measured diagonally) | 22 inches (21.5 inches measured diagonally) | 26 inches (26.0 inches measured diagonally) |
| Sound (Output) | 3 W X 2 | 3 W X 2 | 5 W X 2 |
| Dimensions (WxDxH) | | | |
| Body | 18.8 x 1.2 x 12.6 inches (477.6 x 29.9 x 320.6 mm) | 21.5 x 1.2 x 14.1 inches (545.2 x 29.9 x 359.0 mm) | 25.7 x 1.2 x 16.6 inches (652.8 x 29.9 x 422.8 mm) |
| With stand | 18.8 x 7.5 x 14.7 inches (477.6 x 189.6 x 374.1mm) | 21.5 x 7.5 x 16.2 inches (545.2 x 189.5 x 411.1 mm) | 25.7 x 8.3 x 18.9 inches (652.8 x 212.0 x 479.8 mm) |
| Weight | | | |
| Without Stand | 7.9 lbs (3.6 kg) | 8.2 lbs (3.7 kg) | 12.1 lbs (5.5 kg) |
| With Stand | 8.6 lbs (3.9 kg) | 9.0 lbs (4.1 kg) | 13.7 lbs (6.2 kg) |

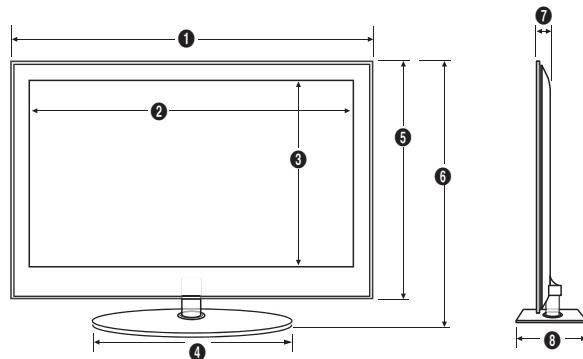
☞ Design and specifications are subject to change without prior notice.

☞ This device is a Class B digital apparatus.

☞ For information about power supply, and more about power consumption, refer to the label attached to the product.

Dimensions

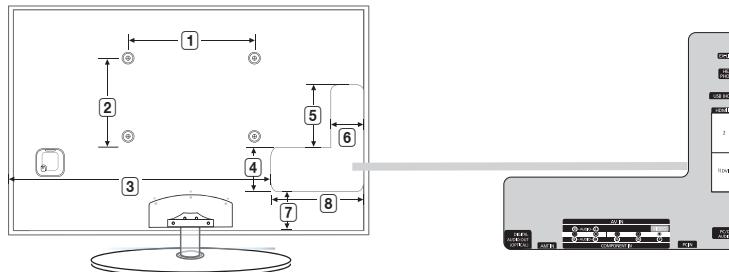
■ Front view / Side view



(Unit: inches)

| Model name | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|------------------------|------|------|------|------|------|------|-----|-----|
| UN19C4000 | 18.8 | 16.2 | 9.1 | 11.0 | 12.6 | 14.7 | 1.2 | 7.5 |
| UN22C4000 UN22C4010 | 21.5 | 18.8 | 10.6 | 11.0 | 14.1 | 16.2 | 1.2 | 7.5 |
| UN26C4000 | 25.7 | 22.7 | 12.8 | 16.9 | 16.6 | 18.9 | 1.2 | 8.3 |

■ Jack panel detail / rear view



(Unit: inches)

| Model name | ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
|------------------------|-----|-----|------|-----|-----|-----|-----|------|
| UN19C4000 | 3.0 | 3.0 | 15.8 | 2.6 | 6.5 | 3.0 | 1.5 | 10.9 |
| UN22C4000 UN22C4010 | 3.0 | 3.0 | 18.5 | 2.2 | 6.8 | 2.9 | 2.4 | 10.9 |
| UN26C4000 | 7.9 | 3.9 | 23.1 | 3.4 | 6.8 | 2.6 | 2.6 | 10.6 |

NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors.

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